

# SYLLABUS

## ORGANIC CHEMISTRY-I Spring 2010

### CHEMISTRY 265

**Professor:** Brian A. Salvatore  
 Office: Science Bldg. Rm. 308  
 Phone: 797-5224  
 E-mail: bsalvato@lsus.edu

**Lecture:** Mon, Wed, Fri. 10:00 – 10:50 am, Science 338

**Office Hours:** Tues, Thurs., 10:30 am-12 noon and Mon., Wed., Fri. 3:30-5:00: pm (and by appointment)

**Required Texts:** *Organic Chemistry*, Janice Gorzynski Smith, 2<sup>nd</sup> Edition, McGraw-Hill, 2007  
*Study Guide/Solutions Manual* to accompany *Organic Chemistry*, Janice Gorzynski Smith, 2<sup>nd</sup> Edition, McGraw-Hill, 2007

**Prerequisite:** Chemistry 124

Week	Monday	Wednesday	Friday
1	1/18 MLK holiday (no class)	1/20 Chp. 1	1/22 Chp. 1
2	1/25 Chp. 1	1/27 Chp. 2	1/29 Chp. 2
3	2/1 Chp. 2	2/3 Chp. 3	2/5 Chp. 3
4	2/8 Chp. 3	2/10 Chp. 4	2/12 Chp. 4
5	2/15 Mardi Gras (no class)	2/17 Chp. 4	2/19 <u>Exam #1</u> (Chp. 1-4)
6	2/22 Chp. 4	2/24 Chp. 5	2/26 Chp. 5
7	3/1 Chp. 5	3/3 Chp. 5	3/5 Chps. 5
8	3/8 Chp. 5	3/10 Chp. 6	3/12 Chp. 6
9	3/15 Chp. 7	3/17 Chp. 7	3/19 Chp. 7
10	3/22 Chp. 7	3/24 Chp. 7	3/26 <u>Exam #2</u> (Chp. 4-7)
11	3/29 Spring break (no class)	3/31 Spring break (no class)	4/2 Spring break (no class)
12	4/5 Chp. 8	4/7 Chp. 8	4/9 Chp. 8
13	4/12 Chp. 8	4/14 Chp. 9	4/16 Chp. 9
14	4/19 Chp. 9	4/21 Chp. 10	4/23 Chp. 10
15	4/26 Chp. 10	4/28 Chp. 10	4/30 <u>Exam #3</u> (Chp. 8-10)
16	5/3 Chp. 11	5/5 Chp. 11	5/7 Chp. 11

FINAL EXAM (cumulative): Monday May 10<sup>th</sup> (10:30am).

**Moodle Course Web Page:** The *Moodle* course web page should serve as a significant aid to your studies this semester. Please consult this page regularly and often, as it will contain a lot of useful information, including homework assignments, printable copies of the *Powerpoint* lecture notes, study suggestions, and other important announcements for the course.

**Attendance and Courtesy:** Attendance in this course will be monitored. Courtesy to others in the classroom is an absolute necessity, and disruptive behavior of any kind is not acceptable. Cell phones are to be turned off, and students should remain seated during the entire class period, unless participating up at the chalkboard, or unless an emergency arises. Students who are repeatedly tardy or exhibit disruptive behavior during lecture will be asked to leave the classroom and will receive a substantial point deduction that will affect their final grade for the course.

**Exams, Quizzes, and Grading Policies:** There will be three in-class hour exams (300 pts. total), a final exam (180 pts.), and approximately seven quizzes (120 pts. total). The final exam is cumulative. It will cover the entire semester, including several problems based on the material covered after the third exam. Quiz and exam problems will be based on the suggested reading in the textbook, class lectures, and variations on the suggested homework problems. Your worst quiz score will be replaced with a perfect score. In order to replace a particular quiz, you must have taken that quiz (*i.e.*, a missed quiz due to an absence counts as a *zero* and cannot be replaced). Make-up quizzes or exams will only be granted in exceptional cases. It is *required* that you purchase a set of **molecular models**, and it is permissible to use them during quizzes and exams. Eligibility for extra credit will also be governed by your attendance (very good attendance is required in order to be eligible for any accrued extra credit points). Cheating on any examination, quiz, or assignment will not be tolerated. All of your submitted work in this course must be your own. All LSUS students are required to have – and have read – a copy of *Understanding Plagiarism*. If you need a copy of this booklet it is available in the University Bookstore. Any incidents of academic misconduct will be referred to the University's *Academic Conduct Board* for a disciplinary hearing, which may result in a failing grade for the course and/or expulsion from LSUS. The last date to drop a course without receiving a 'W' is Friday February 5<sup>th</sup>. The last day to change from credit to audit is Wednesday March 3<sup>rd</sup>, and the last date to withdraw from a course is Monday April 5<sup>th</sup>.

**Disabilities:** LSUS will make reasonable accommodations for persons with documented disabilities. Students should alert Dr. Salvatore of any special needs and seek approval of their request from the Coordinator of Services for Students with Disabilities, located in the Student Development Center (Adm. 277, Ph. 797-5365).

---

### Assignment of Course Grades

<u>Sources of Points</u>	<u>Points</u>	<u>Course Grade Based on Overall Points</u>	
Three in-class exams	300 pts. (total)	A	= 510 <sup>+</sup>
Final Exam	180 pts.	B	= 435-509
<u>Quizzes</u>	<u>120 pts. (total)</u>	C	= 370-434
<b>Total Points</b>	<b>600 pts.</b>	D	= 315-369
		F	= below 315

Extra credit points (20 pts. maximum) will be available from extra assignments and other activities outside of class. These extra-credit points will be added to your total points at the end of the semester. To be eligible to receive any of your accumulated extra credit points, you must have no more than 5 absences, and you must score at least 55% on the final exam.

# **Janice Gorzynski Smith's Organic Chemistry**

## **Table of Contents**

Preface
Prologue
Chapter 1 Structure and Bonding
Chapter 2 Acids and Bases
Chapter 3 Introduction to Organic Molecules and Functional Groups
Chapter 4 Alkanes
Chapter 5 Stereochemistry
Chapter 6 Understanding Organic Reactions
Chapter 7 Alkyl Halides and Nucleophilic Substitution
Chapter 8 Alkyl Halides and Elimination Reactions
Chapter 9 Alcohols, Ethers, and Epoxides
Chapter 10 Alkenes
Chapter 11 Alkynes
Chapter 12 Oxidation and Reduction
Chapter 13 Mass Spectrometry and Infrared Spectroscopy
Chapter 14 Nuclear Magnetic Resonance Spectroscopy
Chapter 15 Radical Reactions
Chapter 16 Conjugation, Resonance, and Dienes
Chapter 17 Benzene and Aromatic Compounds
Chapter 18 Electrophilic Aromatic Substitution
Chapter 19 Carboxylic Acids and Acidity of the O-H Bond
Chapter 20 Introduction to Carbonyl Chemistry: Organometallic Reagents; Oxidation and Reduction
Chapter 21 Aldehydes and Ketones—Nucleophilic Addition
Chapter 22 Carboxylic Acids and Their Derivatives—Nucleophilic Acyl Substitution
Chapter 23 Substitution Reactions of Carbonyl Compounds at the $\alpha$ -Carbon
Chapter 24 Carbonyl Condensation Reactions
Chapter 25 Amines
Chapter 26 Carbon-Carbon Bond-Forming Reactions in Organic Synthesis
Chapter 27 Carbohydrates
Chapter 28 Amino Acids and Proteins
Chapter 29 Lipids
Chapter 30 Synthetic Polymers
Appendices
Glossary
Credits
Index